PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference NOMI.10290		FOR FURTHER ACTION	4	ation of Transmittal of International Search Report VISA/220) as well as, where applicable, item 5		
International PCT/US04/43	application No. 3097	International filing date (day/month/year) 17 December 2004 (17.12.2004)		(Earliest) Priority Date (day/month/year 19 December 2003 (19.12.2003)		
Applicant NOVAMIN T	ECHNOLOGY INC.		. 20 12 12 12			
		en prepared by this International Se ng transmitted to the International E		thority and is transmitted to the applicant		
This internat	7 1	s of a total of sheets. ed by a copy of each prior art docur	nent cited i	n this report.		
1. Basis of	the Report					
i		e, the international search was carried ed, unless otherwise indicated under		basis of the international application in the		
	Authority (Rule 23.1(b)). Vith regard to any nucleotic			e international application furnished to this e international application, the international		
	contained in the internation	onal application in written form.	,,	•		
	filed together with the inte	ernational application in computer re	eadable form	n		
	furnished subsequently to	this Authority in written form.		•		
	furnished subsequently to	this Authority in computer readable	form.			
	the statement that the sub	•		es not go beyond the disclosure in the		
,	, -		ble form is	identical to the written sequence listing has		
2.	Certain claims were four	nd unsearchable (See Box I).	•	•		
3.	Unity of invention is lack	king (See Box II).		·		
4. With re	gard to the title,	•		,		
\boxtimes	the text is approved as sul	bmitted by the applicant.				
	the text has been establish	ned by this Authority to read as follo	ws:			
		·				
5. With re	gard to the abstract,					
	the text is approved as sul	bmitted by the applicant.		• •		
_ لــا			-	y as it appears in Box III. The applicant may, port, submit comments to this Authority.		
6. The fig	ure of the drawings to be p	oublished with the abstract is Figure	No			
	as suggested by the applic	eant.		None of the figures		
	because the applicant faile	ed to suggest a figure.		:		
	because this figure better	characterizes the invention.				
	/010 (5-4-1A) (I-1-100					

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/43097

Box 1 Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely.
2. Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.
Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Pamorik on Protect
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/43097

A. CI	LAS	SIFICATION OF SUBJECT MATTER			
IPC(7)		: A61K 7/16		•	
US CL		: 424/49			
;		International Patent Classification (IPC) or to both nat	tional class	sification and IPC	
		DS SEARCHED			
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l .		cumentation searched (classification system followed b	by classific	cation symbols)	
U.S.					,
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Document	ıtatio:	on searched other than minimum documentation to the	extent the	it such documents are included i	n the fields searched
NONE		:			
				•	
					
Electronic	c date	a base consulted during the international search (nam	e of data h	nase and, where practicable sear	rch terms used)
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1		•		•	
	<u>.</u>				
C. Do	OCI	UMENTS CONSIDERED TO BE RELEVANT			
Category		Citation of document, with indication, where ap	ppropriete	of the relevant nassages	Relevant to claim No.
					1-34
A.		US 6,190,643 B (STOOR et al.) 20 February 2001 (2	20.02.200.	, see the entire document.	1-34
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For	ther	documents are listed in the continuation of Box C.		See patent family annex.	
* ""			WT:11	· · · · · · · · · · · · · · · · · · ·	actional Cline data
•	Sp	pecial categories of cited documents:	"T"	Inter document published after the inten- and not in conflict with the application b	
		defining the general state of the art which is not considered to be of		principle or theory underlying the invent	
		relevance	are poo		
"E" carlie	9F 20-1	ligation or natent sublished on or offer the inter-stice-1 5th- 4.4 - 1	"X"	document of particular relevance; the classidered novel or cannot be considered	
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		which may throw doubts on priority claim(s) or which is cited to			
estab	blish th	he publication date of another citation or other special reason (as	"Y"	document of particular relevance; the cla	
speci	rified)			considered to involve an inventive step with one or more other such documents,	
"O" docu	ument i	referring to an oral disclosure, use, exhibition or other means		to a person skilled in the art	
		·	un "		,
	_	published prior to the international filing date but later than the te claimed	"&"	document member of the same patent fa	атшу
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Date of th	he ac	tual completion of the international search	Date of	mailing of 1 - i-to-national cear	ch renort
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		5 (29.04.2005)			
		iling address of the ISA/US	Authoria	red officer Jamuleh Sh	when h
		Stop PCT, Attn: ISA/US	1	41/	
		nissioner of Patents Box 1450	Thurma	н гиде	
		Box 1450 andria, Virginia 22313-1450	Telephor	ne No. 571-272-0573	•
		. (703) 305-3230		The second secon	
Ti Time	/TC 4 '	/210 (1-14) (I-11000)			

Form PCT/ISA/210 (second sheet) (July 1998)

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHO	ORITY		
To: MARY B. GRANT HUTCHISON & MASON PLLC P.O. BOX 31686		Wh	PCT
RALEIGH, NC 27612			ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	17 WAY 2005
Applicant's or agent's file reference		FOR FURTHER	See paragraph 2 below
NOMI.10290	International Clima data (c	des for each bloom	Dejonity data (day/wowth/war)
International application No.	International filing date (a		Priority date (day/month/year)
PCT/US04/43097 International Patent Classification (IPC) of	17 December 2004 (17.12 or both national classification	المنتوات المستحد المستحدد المس	19 December 2003 (19.12.2003)
IPC(7): A61K 7/16 and US C1.: 424/49			· .
Applicant NOVAMIN TECHNOLOGY INC.			
1. This opinion contains indications rela	ating to the following items	:	
Box No. I Basis of the	opinion		
Box No. II Priority			
Box No. III Non-establi	shment of opinion with reg	ard to novelty, inve	ntive step and industrial applicability
Box No. IV Lack of unit	ty of invention	·	
· · · · · · · · · · · · · · · · · · ·	tatement under Rule 43bis. I		o novelty, inventive step or industrial tatement
Box No. VI Certain doc	uments cited		
Box No. VII Certain defe	ects in the international app	lication	
Box No. VIII Certain obs	ervations on the internation	al application	•
2. FURTHER ACTION			
International Preliminary Examinin	g Authority ("IPEA") exc the IPEA and the chosen I	cept that this does PEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an ne International Bureau under Rule 66.1bis(b) ered.
IPEA a written reply together, where of Form PCT/ISA/220 or before the	e appropriate, with amenda expiration of 22 months fro	nents, before the ex	PEA, the applicant is invited to submit to the spiration of 3 months from the date of mailing whichever expires later.
For further options, see Form PCT/IS	SA/22U.		
3. For further details, see notes to Form	PCT/ISA/220.		
Name and mailing address of the ISA/ US	3	Authorized office	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Thurman Page	Januar Con ton
P.O. Box 1450			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 5	71-272-0573

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/43097

was f	regard to the language, this opinion ha filed, unless otherwise indicated under t	s been establish his item.	ed on the basi	s of the interna	tional applic	cation in the	language	in which
	This opinion has been established on which is the language of a translation	the basis of a tra furnished for th	anslation from ne purposes of	the original la international s	nguage into earch (under	the following Rules 12.3	g languag and 23.1(ge, (b)).
With inven	regard to any nucleotide and/or amin ation, this opinion has been established	o acid sequenc on the basis of:	e disclosed in	the internation	al application	on and necess	sary to the	e claimed
a.	type of material			•	·			
	a sequence listing				·			
	table(s) related to the sequence	listing						
b.	format of material							
	in written format			• .				
	in computer readable form							
				1				
c.	time of filing/furnishing				^			
	contained in international app	lication as filed.			,	•		
	filed together with the internat	tional application	on in computer	readable form	1.			
	furnished subsequently to this	Authority for th	ne purposes of	search.				
	furnished subsequently to this	•	· · · .	٠.				
	In addition, in the case that more the or furnished, the required statement application as filed or does not go be	an one version of	or copy of a s	equence listing subsequent or	additional	copies is ide	ereto has ntical to	been file that in th
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/43097

Statement		•		
Novelty (N))	Claims 1-34		YE
	•	Claims NONE		NC
Inventive st	ep (IS)	Claims 1-34	•	YE
		Claims NONE		NC
Industrial a	pplicability (IA)	Claims 1-34		YE
		Claims NONE		NC
ibination of the claime	ed components for reducin	e 33(2)-(3), because the prior art doeing plaque or gingivitis. e 33(4), and thus have industrial apple		
nade or used in indust	try.	, 33(4), and thus have industrial app.	incaointy occause the subject matte	
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